

The Versatile Concrete Plant



# RMC - Concrete Batching / Mixing Plant

Available in 30/45m<sup>3</sup>/hr in Star Batcher/ In Line Bins/  
Pocket Bins/ Skid Type Bins



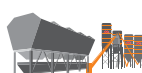
Wet Mix Macadam Plant



Self Loading  
Concrete Mixer



Concrete Batching  
Mixing Plant (MAC)



Concrete Batching  
Mixing Plant (MCP)



Mobile Concrete  
Batching Plant (MA)



Concrete Pipe  
Making Plant



Kerbing Machine



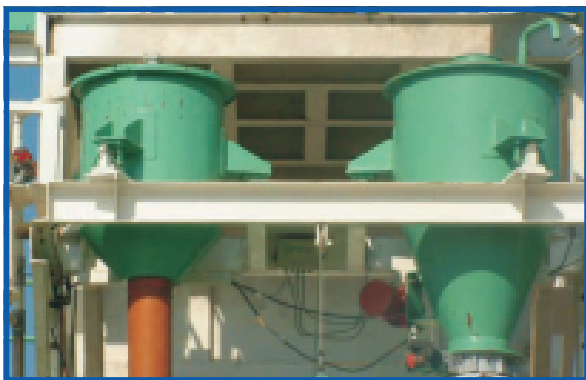
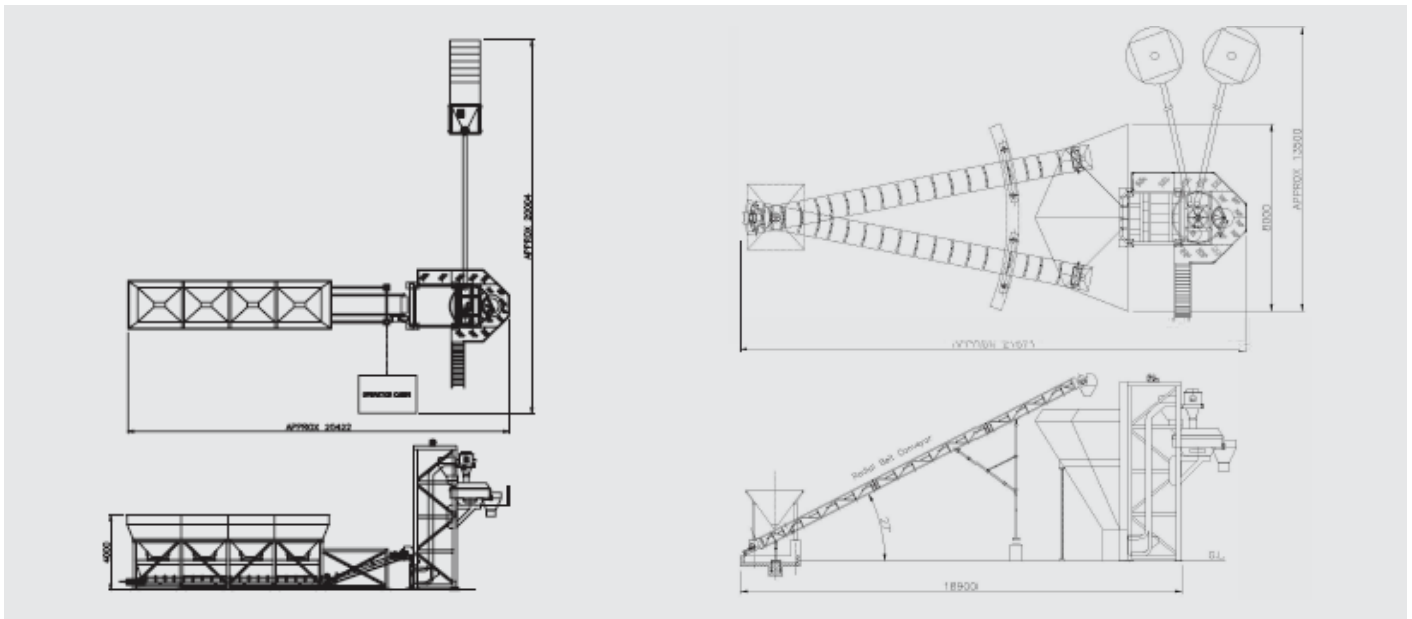
Truck Mounted  
Aerial Platform



Transit Mixer



**RMC BIN 30 / 45**



### The Cement, Water and Additive Weigher

Cement and Water having independent batch controller for precise weighing through individual electronic load cells, the least count is 0.5 Kg. and the accuracy of weightment is  $\pm 1\%$ . A separate M.S. fabricated conical weighing hopper for cement and water shall be provided, which rests on mild steel fabricated modular frame. Additive system consisting transparent glass tank fitted under the electronic load cell. The least count of additive is 0.05 Kg. and the accuracy of weightment is  $\pm 3\%$ .



### Pan Type Mixer

The Mixer is mainly responsible for good quality concrete. We construct our own energetic mixer to provide that quality. In this mixer, all the ingredients are mixed and removed in circles, obtaining a homogeneous mixture. It moves and revolves with the arms, absorbing the shocks that are produced through the coupling spring incorporated that regulate the position and slope angles of the paddles to obtain the result with minimal power consumption. Mixer is having replaceable hard liner tiles on side and bottom. Mixer's top cover can be folded for easy cleaning of inside of the mixer.





**RMC P 30**



### Control Panel

- The system combines the power of a PLC and dedicated Weighing Modules to provide reliable and accurate control.
- The system can handle up to 4 scales or more; with

upto 5 Aggregates, upto 4 Cements, Water & upto 2 Admixtures, being accurately Batched on 'weight' basis.

- The system is capable of handling multi-scale, multi-ingredient Batching & Mixing operation, with All necessary Interlocking, Timing, Alarm generation, Event-logging, Recipe & Report generation facility.
- Software calibration for all scales with password protection.
- The system has Touch Screen display with 3 Serial communication ports & 2 USB port.
- High speed sampling ensures batch to batch accuracy.
- All necessary interlocks are programmed within the system to allow parallel batching and Mixing Operations.
- Variety of features incorporated in the system ensures easy and fault free plant operation.
- The Manual Desk is equipped with Push buttons, indications and change over switches. Each device in the plant can be operated manually completely by - passing the AUTO system.



### Screw Conveyor

A heavy duty screw conveyor is installed in inclined position to convey the cement from manual feeding hopper to cement hopper, Cement/Fly Ash Silo adequate drive unit provided with screw conveyor. Screw conveyor supported by suitable vertical M.S. supports. A screw have one inlet connection at bottom, where manual feeding hopper / cement silo connected and one discharge connection at the top from where the cement is discharged to cement weighing hopper.



### Star Batcher - Aggregate Weigher

Batching star unit incorporating four compartment with individual bulk heads for storage of 3 types of aggregate and sand. The gates are opened by pneumatic cylinder from where bucket is charged with aggregate and sand. The agg. bucket rests on four electronic load cells, which is fitted on fabricated modular frame. The strain gauges are sensing the mechanical deflection of the load cell due to charging of agg. and display of weight of indicates on the panel. The least count is 1 Kg. and the accuracy of weighing is  $\pm 2\%$ .



### Radial Dragging Scraper for RMC - 30/45

Radial Scraper help pulling aggregate & sand towards the gate of the bulk head. The reach of the boom dragline bucket will be according to the capacity of batching plant. The swiveling of the boom is done by a geared motor fitted in the cabin double drum which is fitted inside the cabin of the radial scraper and is driven by an electric motor. The control levers and pedals are within the easy reach of the operator. The cabin is mounted on the top of the bulk head structure and the boom facing the batching star. A slewing ring motorized gear is provided & swiveling is done by Forward / Reverse switch in front of the operator. Alternative swiveling can be done manually by replacing motorized gear by a simple steering wheel coupled mechanically with slewing gear by a pinion. The cabin has glass window on all sides for clear unobstructed view of the scraper in all phase of the operation.

## Technical Specifications

Specification	Unit	RMC-30	RMC-BIN-30	RMC-P-30	RMC-45	RMC-BIN-45
Output Capacity	m3/hr	30	30	30	45	45
Type of Mixer	-	PAN / SINGLE SHAFT / PLANETARY	PAN / SINGLE SHAFT / PLANETARY	PAN	PAN / SINGLE SHAFT / PLANETARY	PAN / SINGLE SHAFT / PLANETARY
Capacity of Mixer	Liter	750/500	750/500	750/500	1000/750	1000/750
Aggregate Storage	-	Star Batcher	In Line Bins	Pocket Bins	Star Batcher	In Line Bins
Nos. of Bins	Nos.	-	4	4	-	4
Storage capacity of each bins	m3	-	8	08-Oct	-	08-Jan
Boom Length	Meter	12	-	-	12	-
Complete Storage with a box radius of 12m	Approx m3	500	-	-	500	-
Active Reserves of Aggregate	Approx m3	25	-	-	25	-
<b>Weighing Scale / Load Cell</b>						
- Aggregate Scale	Kg.	1500	1500	1500	2000	2000
- Aggregate Load cell	Nos.	4	6	6	4	6
- Cement Scale	Kg.	300	300	300	600	600
- Cement Load cell	Nos.	3	3	3	3	3
- Water Scale	Kg.	150	150	150	300	300
- Water Load cell	Nos.	1	1	1	1	1
Cement Screw Conveyor	N.B.	Ø219	Ø219	Ø219	Ø219	Ø219
Vibrator Motor	-	Sand / Cement	Sand / Cement	Sand / Cement	Sand / Cement	Sand / Cement
Controls		Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully / Automatic
Connected Power	HP	81.38 / 81.38 / 76.38	75.38 / 75.38 / 70.38	65.38	95.38	89.38
Concrete Discharge Height	Mt.	4.1	4.1	4.1	4.1	4.1
Total Weight (Approx)	Ton	17	21	19	22	26

\*Design and specification are subject to change without prior notice.

### Salient Features

- Star batcher used for storing the Aggregates provides area for large active and passive reserves.
- Sturdily fabricated skip hoist and platform.
- Heavy duty Pan Mixer with tiles and tips made of hardened steel which gives longer life and better wear resistance and are easily replaceable.
- Independent weighing systems for Cement, Water, Flyash, Additives which enables to reduce cycle time and hence increase in output.
- Dual speed geared motors for transporting the Skip bucket enabling faster and safer mode of transportation.
- Fully Automatic Electronic batching software with digital display of each operation) Scada based system available as optional).
- Ample space on the Mixer platform which provides easy and faster access for maintenance.
- All the above backed up with able and competent Sales and After sales support.

### Optionals

- Cement Fly Ash Storage & Conveying System from 20 to 200 MT. capacity.
- Computer SCADA System with adequate software
- Chemical Additive dosating system.
- Online / Offline Printing System.
- Silo Accessories.



### Macons Equipments Pvt. Ltd.

**Corporate Office:** 11, Abhishree Corporate Park, Bopal-Ambli Road, Ahmedabad-380058, Gujarat, India

**Works:** Survey Block No. 212/216, Mahalaxmi Estate, Sarkhej Bavla Highway, Matoda Patia, Taluka Sanand, Ahmedabad - 382213, Gujarat, India

**+91-79-2979 5401, +91-99090 03759, +91-98798 44076**

**info@macons.co.in | www.macons.co.in**

**Toll Free Number  
1800 121 5671**

